

**NOTICE OF DRAFTSPERSON'S  
PATENT DRAWING REVIEW**

The drawing(s) filed (insert date) 11-8-99 are:

- A.  approved by the Draftsperson under 37 CFR 1.84 or 1.152.  
 B.  objected to by the Draftsperson under 37 CFR 1.84 or 1.152 for the reasons indicated below. The Examiner will require submission of new, corrected drawings when necessary. Corrected drawing must be submitted according to the instructions on the back of this notice.

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|---|---|
| 1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings:<br><input type="checkbox"/> Black ink. Color.<br><input type="checkbox"/> Color drawings are not acceptable until petition is granted.<br><input type="checkbox"/> Fig(s) _____<br><input type="checkbox"/> Pencil and non black ink not permitted. Fig(s) _____  | 8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i)<br><input type="checkbox"/> Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) _____  |
| 2. PHOTOGRAPHS. 37 CFR 1.84 (b)<br><input type="checkbox"/> 1 full-tone set is required. Fig(s) _____<br><input type="checkbox"/> Photographs not properly mounted (must use bristol board or photographic double-weight paper). Fig(s) _____<br><input type="checkbox"/> Poor quality (half-tone). Fig(s) _____  | 9. SCALE. 37 CFR 1.84(k)<br><input type="checkbox"/> Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction.<br><input type="checkbox"/> Fig(s) _____  |
| 3. TYPE OF PAPER. 37 CFR 1.84(e)<br><input type="checkbox"/> Paper not flexible, strong, white, and durable.<br><input type="checkbox"/> Fig(s) _____<br><input type="checkbox"/> Erasures, alterations, overwritings, interlineations, folds, copy/machine marks not accepted. Fig(s) _____<br><input type="checkbox"/> Mylar, velum paper is not acceptable (too thin).<br><input type="checkbox"/> Fig(s) _____  | 10. CHARACTER OF LINES, NUMBERS, & LETTERS.<br>37 CFR 1.84(j)<br><input type="checkbox"/> Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (poor line quality).<br><input type="checkbox"/> Fig(s) _____  |
| 4. SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes:<br><input type="checkbox"/> 21.0 cm by 29.7 cm (DIN size A4)<br><input type="checkbox"/> 21.6 cm by 27.9 cm (8 1/2 x 11 inches)<br><input type="checkbox"/> All drawing sheets not the same size.<br><input type="checkbox"/> Sheet(s) <u>FIG. 1A, 1B, 7, 8</u><br><input type="checkbox"/> Drawings sheets not an acceptable size. Fig(s) _____  | 11. SHADING. 37 CFR 1.84(m)<br><input type="checkbox"/> Solid black areas pale. Fig(s) _____<br><input type="checkbox"/> Solid black shading not permitted. Fig(s) _____<br><input type="checkbox"/> Shade lines; pale, rough and blurred. Fig(s) _____   |
| 5. MARGINS. 37 CFR 1.84(g): Acceptable margins:<br>Top 2.5 cm Left 2.5cm Right 1.5 cm Bottom 1.0 cm<br>SIZE: A4 Size<br>Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm<br>SIZE: 8.1/2 x 11<br>Margins not acceptable. Fig(s) _____<br><input type="checkbox"/> Top (T) _____ Left (L) _____<br><input type="checkbox"/> Right (R) _____ Bottom (B) _____   | 12. NUMBERS, LETTERS, & REFERENCE CHARACTERS.<br>37 CFR 1.84(p)<br><input type="checkbox"/> Numbers and reference characters not plain and legible.<br><input type="checkbox"/> Fig(s) _____<br><input type="checkbox"/> Figure legends are poor. Fig(s) _____<br><input type="checkbox"/> Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1)<br><input type="checkbox"/> Fig(s) _____<br><input type="checkbox"/> English alphabet not used. 37 CFR 1.84(p)(2)<br><input type="checkbox"/> Figs _____<br><input type="checkbox"/> Numbers, letters and reference characters must be at least .32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3)<br><input type="checkbox"/> Fig(s) _____ |
| 6. VIEWS. 37 CFR 1.84(h)<br>REMINDER: Specification may require revision to correspond to drawing changes.<br>Partial views. 37 CFR 1.84(h)(2)<br><input type="checkbox"/> Brackets needed to show figure as one entity.<br><input type="checkbox"/> Fig(s) _____<br><input type="checkbox"/> Views not labeled separately or properly.<br><input type="checkbox"/> Fig(s) _____<br><input type="checkbox"/> Enlarged view not labeled separately or properly.<br><input type="checkbox"/> Fig(s) _____ | 13. LEAD LINES. 37 CFR 1.84(q)<br><input type="checkbox"/> Lead lines cross each other. Fig(s) _____<br><input type="checkbox"/> Lead lines missing. Fig(s) _____   |
| 7. SECTIONAL VIEWS. 37 CFR 1.84 (h)(3)<br><input type="checkbox"/> Hatching not indicated for sectional portions of an object.<br><input type="checkbox"/> Fig(s) _____<br><input type="checkbox"/> Sectional designation should be noted with Arabic or Roman numbers. Fig(s) _____  | 14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(t)<br><input type="checkbox"/> Sheets not numbered consecutively, and in Arabic numerals beginning with number 1. Sheet(s) _____   |
|   | 15. NUMBERING OF VIEWS. 37 CFR 1.84(u)<br><input type="checkbox"/> Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) _____  |
|   | 16. CORRECTIONS. 37 CFR 1.84(w)<br><input type="checkbox"/> Corrections not made from prior PTO-948 dated _____   |
|   | 17. DESIGN DRAWINGS. 37 CFR 1.152<br><input type="checkbox"/> Surface shading shown not appropriate. Fig(s) _____<br><input type="checkbox"/> Solid black shading not used for color contrast.<br><input type="checkbox"/> Fig(s) _____   |

COMMENTS FIG. 1A, 1B, 7, 8 ARE ON A-4 SIZE PAPER AND  
 ALL PRIOR SHEETS ARE ON 8 1/2 X 11

REVIEWER JL DATE 12-8-99 TELEPHONE NO. 703 305 0430

ATTACHMENT TO PAPER NO. \_\_\_\_\_